

# Morrison Planetarium

## Sky Shows

**Probes**, the sky show in Morrison Planetarium, takes us on a journey through the history of space exploration. Since Sputnik what have we learned and where do we hope to go with manned and unmanned vehicles? Probes can be seen through June 22.

*The Planetarium will be closed from June 23 through June 26 to prepare for the new sky show.*



**Starwars, Starships, and Extraterrestrials** opens on June 27 with a look at the themes of the most popular science fiction films of our times. Is there scientific probability or even remote possibility behind the alien worlds encountered on these fictional leaps into hyperspace? This sky show continues through September 14.

Sky shows can be seen on weekends at 2:00 p.m. and weekends and holidays at 1:00, 2:00, 3:00 and 4:00 p.m.

Due to the popularity of the shows, members are asked to be at the planetarium box office at least ten minutes before the start of each performance.

**Exploring the Skies of the Season** offers a chance to see the night skies over San Francisco without staying up late or worrying about fog. The June skies offer the best viewing of the Summer Triangle and the Milky Way.

Shows are on Saturdays and Sundays at 12 noon.

## Laserium

Laserium offers four laser shows - **Crystal Odyssey: A Classical Fantasy** on Saturdays and Sundays at 5:00 p.m.; **Laserspace** on Thursdays at 9:00 p.m.; **Genesis** featuring Phil Collins on Friday through Sunday at 9:00 p.m. with late shows on Friday and Saturday at 10:30 p.m.; and Pink Floyd's **Dark Side of the Moon** on Friday, Saturday, and Sunday at 7:30 p.m.

Tickets are \$5 for adults and \$3 for seniors and children 6-12. (Crystal Odyssey has a special adult admission of \$4.) Members are reminded that their planetarium passes are not valid for Laserium shows. Show titles are subject to change without notice. For recorded information call (415) 750-7138.

## Young Audiences

This series of free performing arts programs for children explores science and cultural anthropology through music, dance and theater. Presented on the last Wednesday and Sunday of each month at the Academy, the series is made possible by a grant from McKesson Foundation Inc. to Young Audiences of the Bay Area, a non-profit organization sponsoring art programs in local schools.

**Sunday, June 29 1:00 p.m.**

The OPERA ENSEMBLE OF SAN FRANCISCO presents "How to Make an Opera" — and make it fun! The magical elements of opera combine in a delightful lyric comedy.

Please note, this month there is no Wednesday program for schools. The series will resume in September.

## Art of the Americas

The Meridian Nights series of evening lecture/performance highlights the cultural arts of the North, Central and South America. The programs are sponsored by the Society for Art Publications of the Americas (SAPA) and the Academy of Sciences.



*God L (1 Death)  
the ruler  
of Xibalba*

**Popul Vuh: Cosmogenesis Maya  
Wednesday, June 4**

Wine and Cheese: 7:00 p.m.  
Presentation: 7:30 p.m.

Artist/film maker/scholar Patricia Amlin introduces her animated film-in-progress "Popul Vuh: Cosmogenesis Maya" based on the creation myths of the Quiche Maya people recorded in the sacred manuscript Popul Vuh. In the film, the animation interprets the motifs on classic Maya polychrome ceramics, accompanied by music on pre-Columbian instruments.

The program takes place in Morrison Auditorium. Tickets are \$5 at the door; the price includes wine and cheese.

## Traditional Arts

**The Phyllis Wattis Traditional Arts Series** reflects the Bay Area's exciting blend of colorful cultures and ethnic groups from around the world. Every Saturday at 1:00 p.m. one group shares some aspect of its cultural heritage with visitors to the Academy. These free programs in Wattis Hall of Man are funded by a grant from the Paul L. and Phyllis Wattis Foundation.

**June 7** - No Program

**June 14** - Kitka, the Eastern European Women's Chorus, performs stirring songs in a variety of Slavic languages. Their authentic renditions of regional vocal styles are unlike anything in music of the west.

**June 21** - Dorothy Hochberg-Simmons takes time off from homesteading in the mountains of California to present "Sheep Thrills" - a demonstration of handspinning using a drop spindle and spinning wheel. She will share her knowledge on the history of spinning, suitable fibers and the making of natural dyes.



**June 28** - The Constantinople Group creates images of the folklife of the mountains and coastal areas of sunny Greece with lilting and lively line dances and gently flirtatious couple formations.



# Special Lectures

## EXPEDITION TRAVEL FORUM

The California Academy of Sciences and Phileas Fogg's Books and Maps for the Traveler continues this lecture series by Dr. Georg Treichel. Presented at the Academy without slides, each lecture focuses on one destination. Dr. Treichel, who teaches geography and environmental studies at San Francisco State University, has received "Outstanding Lecturer" awards from many organizations.

**Brazil** **Monday, June 9**  
**Morrison Auditorium** **7:30 p.m.**

Brazil - its name conjures images of festive living amid lush tropical splendor. But this awaking giant of the developing world contains almost half the population and land mass of South America and is now beginning to exert its economic and political potential.

Tickets are \$5 and will be sold at the door beginning one-half hour before the lecture.

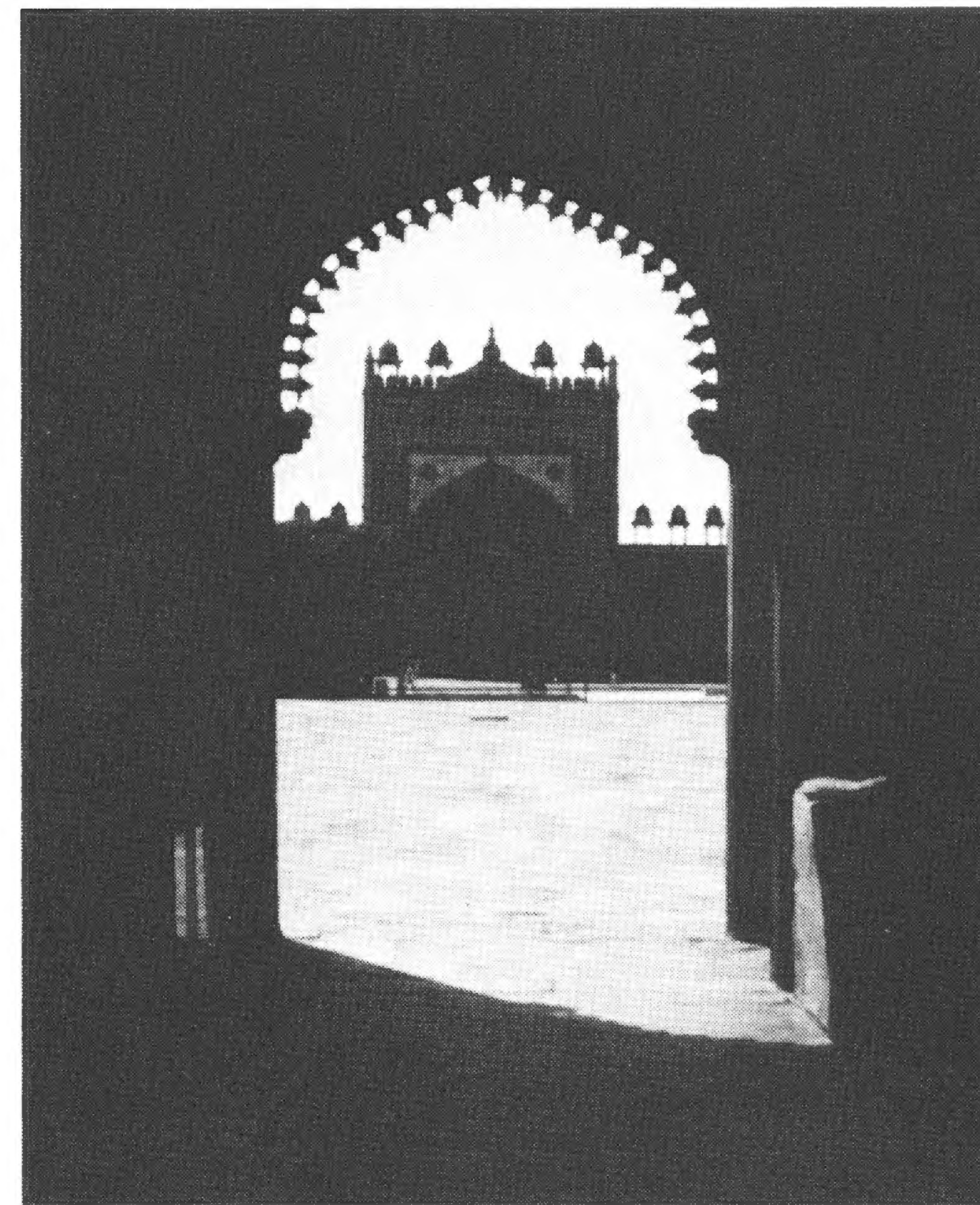
**Trekking in Nepal: A Sherpa's View**  
**Nima Tenzing**

**Tuesday, June 17** **8:00 p.m.**  
**\$2 members, \$3 non-members**

Nima Tenzing has been on top of the world -many times. A native of Thami, a tiny village tucked into the Himalayas at 14,400 feet, Tenzing has participated in more than 80 expeditions into the mountains of his homeland. He accompanied Sir Edmund Hillary on the historic 1953 assault of Everest and in 1964 received the Kennedy Medal of Honor for his rescue of Lute Jerstad, whom 110 pound Tenzing carried on his back from the mountain to medical aid in Kathmandu.

Tenzing will show slides from some of the most memorable moments in an extraordinary career, answer questions from the audience and introduce a short film "A Trek in Nepal".

Tickets are available at the door one-half hour before the lecture. For information call the Travel Office at (415) 750-7222.



*Mosque in Fetehpur Sikri*

**An Elegant Blend: The Religion and Arts of India**

**Dr. Siddiq Wahid**  
**Thursday, June 26** **8:00 p.m.**  
**Morrison Auditorium** **Free**

Religion is closely woven into the fabric of life and art of India. Dr. Siddiq Wahid, a native of Ladakh, will use slides to illustrate this lecture on the influences of art and architecture on this ancient and complex civilization. Dr. Wahid earned his doctoral degree at Harvard University in the study of Central Asian and Tibetan Civilizations and is the author of *Ladakh: Between Earth and Sky*.

# Inside the Academy

Member's Open House on May 14 was enjoyed by staff and members alike with more than 1,500 visitors getting a front row view of the scientific departments, the star projector, and the exhibits preparation areas. It was a wonderful opportunity for members to become acquainted with the staff and their work.

Research at the Academy during the first half of '86 took scientists around the world. These projects are important in maintaining the Academy as one of the major scientific institutions in the country.

Dr. Daphne Fautin, Associate Curator of Invertebrate Zoology, spent two months at the new Christensen Research Lab in Madang, New Guinea continuing her studies of the symbiotic relationship between clownfish and their host anemones. In another part of the world, Dr. Robert Drewes, Chairman of Herpetology, made major collections in Tanzania of reptiles for the department, and continued his research on African tree frogs at the National Museum of Kenya.

Dr. John McCosker, Director of the Aquarium and Chairman of the Aquatic Biology Department added new species of eels and wrasses to the collection from Micronesia, and herpetologist, Jens Vindum, returned from the same trip with lizards and other reptiles and amphibians for the collection.

Dr. Michael Ghiselin, visiting MacArthur Fellow in the Department of Invertebrate Zoology, is collaborating with researchers at Indiana University to determine RNA sequencing in the invertebrate. In the botanical realm, Drs. Dennis Breedlove and Frank Almeda collected specimens in Baja California and Costa Rica, and Dr. Bruce Bartholomew completed a scientific exchange program by collecting in China and Bhutan on a joint expedition funded by the

National Geographic Society. In the field of entomology, Dr. Wojciech Pulawski collected solitary wasps in southern Arizona many of which were species not represented in Academy collections. Accessioning of a major gift of approximately 50,000 spiders -the Exline-Peck Collection - began this spring in the Entomology Department.

In Ichthyology, Dr. Tomio Iwamoto reached new depths diving in the deep submergence rescue vehicle Avelon in search of grenadier rat-tailed fishes off the California coast. Dr. Bill Eschmeyer, Chairman of the department, received a grant from the National Science Foundation to prepare a computer database of generic names of fishes. He is working in collaboration with scientists from Berkeley and Michigan on this important project.

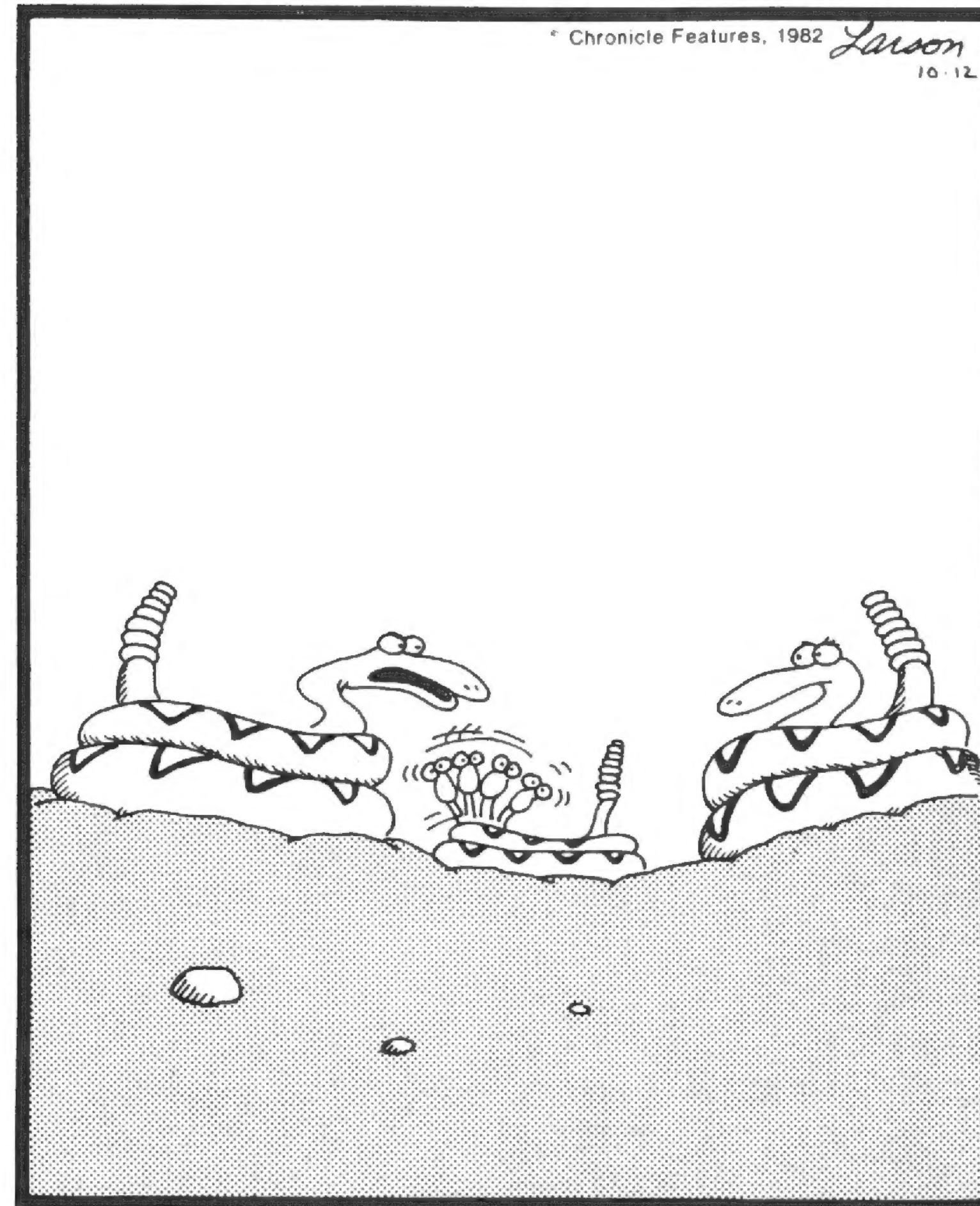
Dr. Terry Gosliner, Associate Curator of Invertebrate Zoology, returned from several weeks of collecting nudibranchs on Aldabra and in the Seychelles. He was joined in Quintana Roo and Hawaii by Dr. Michael Ghiselin, where they continued their joint work on opisthobranchs.

A new entry way to the Steinhart Aquarium was recently completed off Earth and Space Hall. The area features color images donated by Research Associate Al Giddings from his photographic expeditions around the world and is used by teachers to prepare students for the diversity of marine life that they will see in the Aquarium. Visitors can touch the shell of a 1200 pound Tridachna clam and gaze at a huge set of white shark jaws. The new entry area was designed in part and funded by Dr. John E. du Pont, President of the Delaware Museum of Natural History.



# Special Exhibits

## He who laughs last . . .



"This is your side of the family, you realize."

This is your last chance to see **The Far Side of Science** which closes on June 22 to begin a three year national tour. The side-gripping humor of Gary Larson's cartoon the Far Side captures the natural world in situations that are not only zany, but quite believable.

**Dugald Stermer: Illustrations of Wild Life** is an elegant collection on the life and work of one of the Bay Area's most notable illustrators. Stermer portrays fish, bears, birds and humans with the same fine line style. Eighty works by Stermer can be seen in Lovell White Hall through June 15.

**The Earth Shook, The Sky Burned** a collection of historic photographs of the 1906 Earthquake shows the devastation caused by the earthquake and fire and the spirit of those who survived to build a new city. Sponsored by a grant from the San Francisco Hotel Tax Fund, this exhibit can be seen through June 4 in Cowell Hall.

The winning photographs in **The Fourth Annual Photography Contest for Young People** will be displayed in Cowell Hall Gallery beginning June 14. Winners in six categories were chosen by a panel of judges from more than 1,200 entries submitted by youngsters aged 4 to 18. This annual competition is co-sponsored by KRON-TV and the Academy. The photographs will be on display in Cowell Gallery through September 1.

**Prismacolor Nature Drawings** continues on display in Lower Cowell Gallery. The exhibit displays the work of local artist Rod MacPherson whose beautiful illustrations of marine life have enlivened the legends in Steinhart Aquarium since 1978. Through September 15.

## Adult Education and Travel

The summer months offer adults with an interest in natural history new opportunities to enjoy a wide range of activities. A complete description of these classes and tours can be found in the Summer Activities Calendar that has been mailed to all members of the Academy. For information call the Adult Education Office at (415) 750-7100.

**Introduction to Fish Pathology**  
June 10-24 (3 Tuesdays)  
\$25 members, \$35 non-members

**Koi: Japanese Colored Carp**  
June 11-25 (3 Wednesdays)  
\$25 members, \$35 non-members

**Seals of the World**  
June 11-July 2 (4 Tuesdays)  
Field trip: June 27  
\$30 members, \$40 non-members

**Drawing Crystals**  
June 12-July 3 (4 Thursdays)  
\$35 members, \$45 non-members

**Wildflowers of our Northern Forests**  
Class: June 3  
Trip: June 15-21  
\$265 members, \$280 non-members

**The Birds of Mono Lake**  
Class: June 25  
Trip: July 3-6  
\$150 members, \$165 non-members

## Academy Expeditions

Plan your travels with the California Academy of Sciences. There are diverse destinations with adventure and education for every traveler. For information call the Academy Travel Office at (415) 750-7222.

## MEMORABLE SUMMER FUN



*California Academy of Sciences'  
1985 Grand Canyon Whitewater Expedition*

**GRAND CANYON WHITE WATER EXPEDITION**  
**August 17-31**  
Spend two weeks of your summer on a trip that promises a lifetime of thrilling memories.

This superb wilderness experience will take participants from Lee's Ferry (Mile Zero of the Canyon) to Whitemore Wash near Lake Mead. This special tour is made in dories - decked, compartmented, unsinkable rowboats that measure 17' by 7'. Each dory is captained by a professional guide and carries four participants - an ideal way to experience some of the greatest river rapids in the world. Time actually spent floating is less than four hours per day. Numerous half-day and all day side trips highlight exploration of the Canyon: Upper Elves Chasm, Royal Arch Creek, Monument Creek, Stone Creek, Thunder River, Havasu Creek and more. Cost is \$1396 plus air fare to Las Vegas. This trip is recommended for those who have camping experience and are in excellent physical condition.

Other 1986 expeditions include:

**KENYA ADVENTURE SAFARI**  
June 4 - 18  
\$1745 land plus \$1400 air fare

**A NATURALIST'S AUSTRALIA**  
August 14 - September 7  
\$3100 land plus \$1816 air fare

**ALASKAN ODYSSEY CRUISE**  
August 30 - September 11  
\$2810 - \$3990 cruise plus air fare

**AMERICAN'S OWN: Chesapeake Bay and the Smithsonian**  
September 23 - October 4  
\$2472 to \$2622 land, air and cruise

**JUNGLE RIVERS OF SOUTH AMERICA: The Orinoco and the Amazon**  
September 30 - October 15  
\$3990 to \$8690 plus \$1220 air fare

**A WILDLIFE SAFARI TO INDIA AND NEPAL**  
October 28 - November 20  
\$3452 plus \$1805 air fare

**THE YUCATAN**  
October 31 - November 16  
\$1895 land plus \$446 air fare



# June Members' Meetings

## Dates & Times

Matinee, 2:00 p.m., Wednesday, June 11  
Evenings, 8:00 p.m., Wednesday and  
Thursday, June 11 and 12

## Place

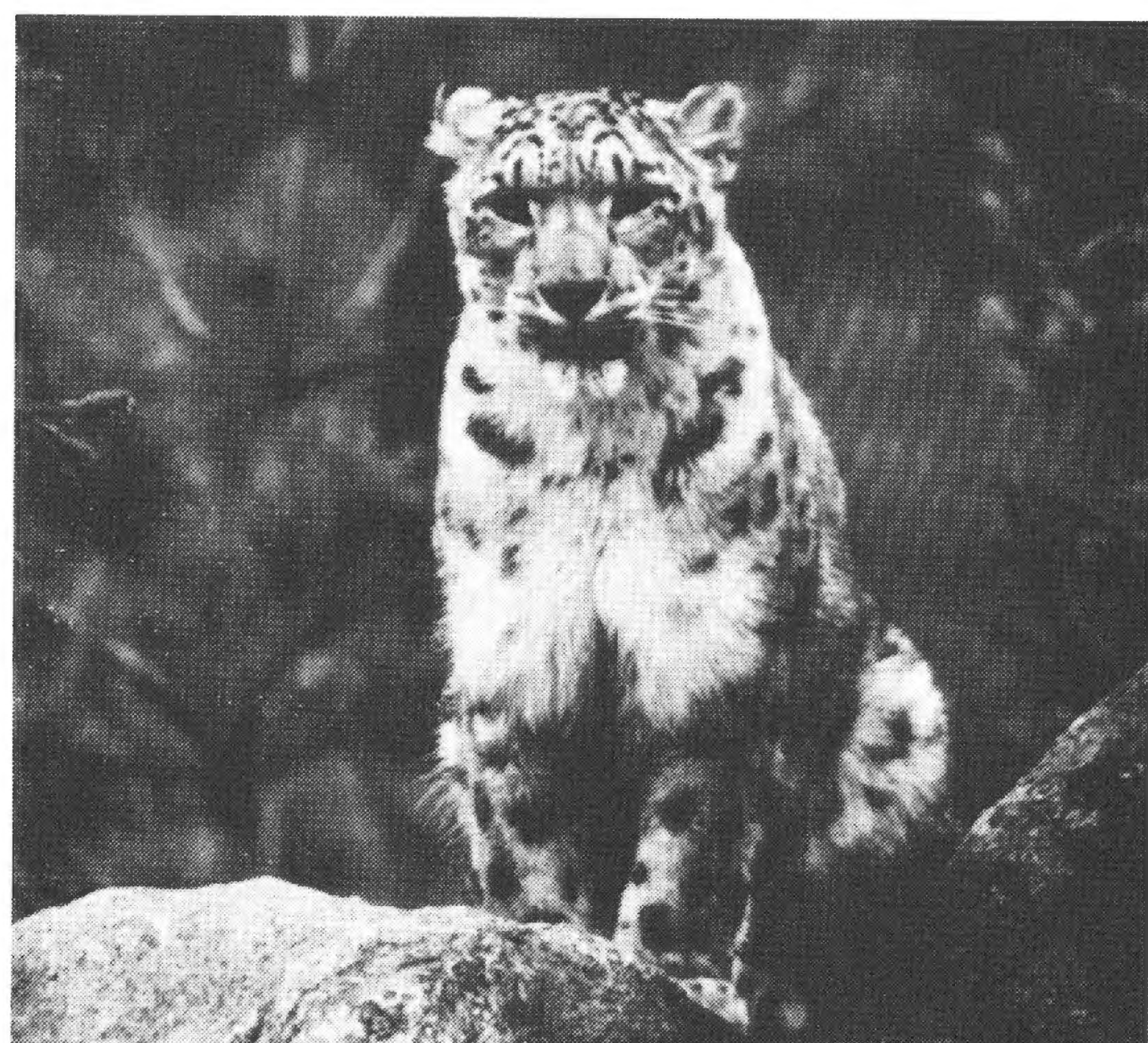
Morrison Auditorium

## Speaker

Rodney Jackson

## Subject

Snow Leopards of Langu Gorge



In the remote Langu Gorge of the Himalayas lives one of the rarest large animals on earth — the snow leopard. With stunning photographs of a region virtually unknown to the Western world, Rodney Jackson will tell the spellbinding story of his 150 mile trek to study these reclusive animals. Jackson's new information on the rare cats' habits and habitat is the cover story of the June issue of *National Geographic*.

**Sneak Preview:** The members' meetings on July 9 and 10 will feature Robert Tyrrell and Esther Quesada Tyrrell speaking on Hummingbirds: Their Life and Behavior.

# The Month At A Glance

## JUNE

- 4 Art of the Americas - Popul Vuh
- 4 Last day of **The Earth Shook, The Sky Burned**
- 9 Travel Forum - Brazil
- 11 Members' Meeting
- 12 Members' Meeting
- 14 Opening of **Photography Contest for Young People**
- 14 Traditional Arts - Eastern European Women's Chorus
- 15 Last day of **Dugald Stermer: Illustrations of Wild Life**
- 17 Lecture - Sherpa Nima Tenzing
- 21 Traditional Arts - wool spinning demonstration
- 22 Last day of **The Far Side of Science**
- 22 Last day of **Probes** in planetarium
- 26 Lecture - The Religion and Arts of India
- 27 Opening of **Starwars, Starships and Extraterrestrials** in planetarium
- 28 Traditional Arts - Greek dancing
- 29 Young Audiences - Opera Ensemble of San Francisco

Golden Gate Park  
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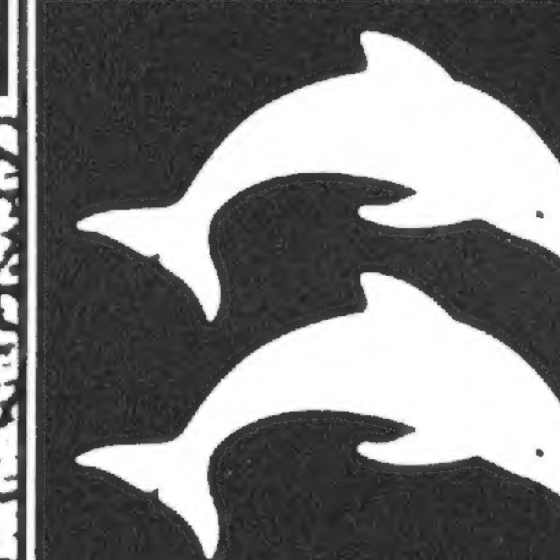
Open every day of the year  
from 10 until 5



California Academy of Sciences

California Academy of Sciences

Natural History  
Museum  
& Aquarium



NEWSLETTER

June 1986

Non-Profit Organization  
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